Manufacturer: Phoenixtec Power Co., Ltd.

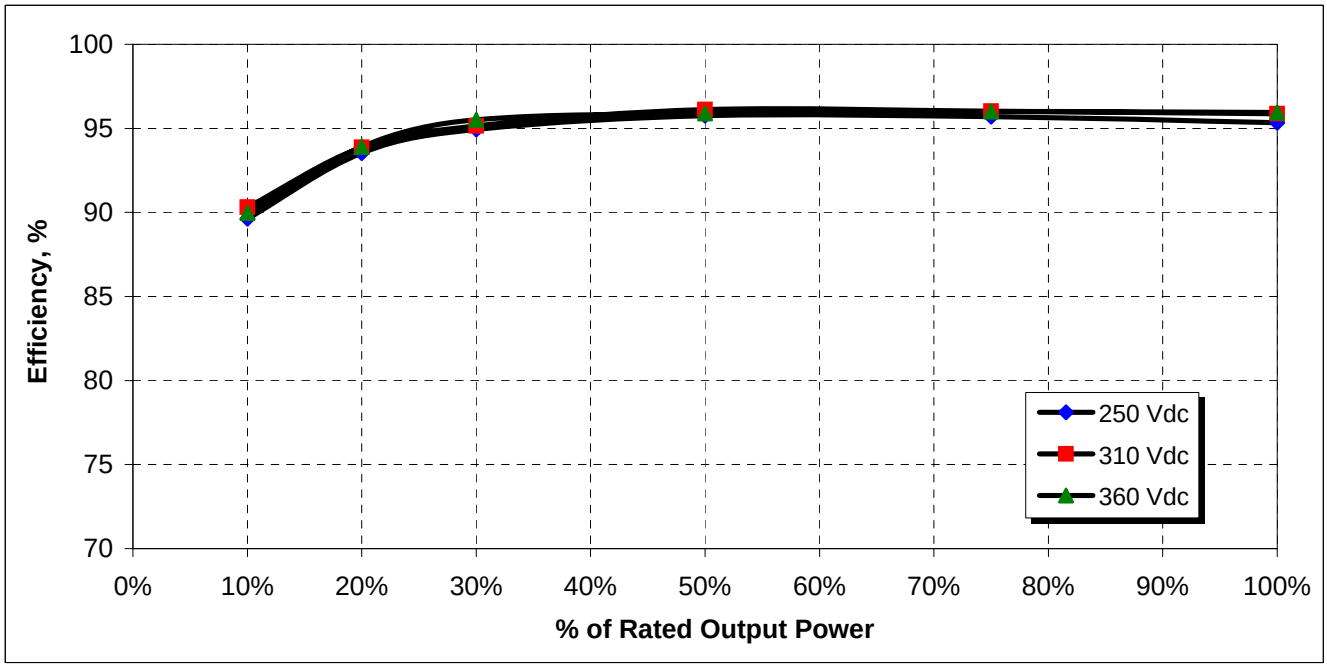
Model #: PS240US3R

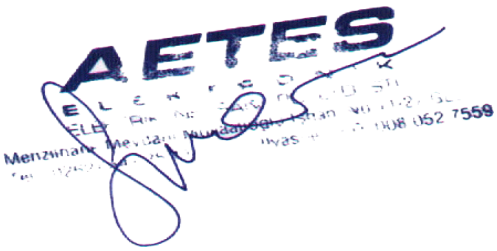
Rated Maximum Continuous Output Power: 4.00 kW Night Tare Loss: 39.00 W

Vmin: 250 Vdc Vnom: 310 Vdc Vmax: 360 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.80	1.20	2.00	3.00	4.00	Wtd
Vmin	250	89.6	93.5	94.9	95.8	95.7	95.3	95.2
Vnom	310	90.3	93.9	95.1	96.1	96.0	95.9	95.6
Vmax	360	90.0	93.9	95.5	95.9	96.0	95.9	95.6

CEC Efficiency = 95.5%





Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.3633	249.7	89.900	0.360	249.6	89.900	0.360	249.8	89.500	0.250	362.4	89.400	0.362	249.6	89.470
20%	Vmin	0.7530	249.6	93.800	0.753	249.2	93.800	0.753	249.6	93.200	0.250	753.3	93.300	0.743	249.4	93.507
30%	Vmin	1.1462	249.5	95.000	1.139	249.2	95.100	1.140	249.2	94.800	0.250	1146.0	94.800	1.146	249.5	94.970
50%	Vmin	1.9124	249.3	95.800	1.924	248.2	95.700	1.926	249.2	95.700	0.249	1911.8	95.600	1.915	249.0	95.984
75%	Vmin	2.8736	249.0	95.700	2.869	248.8	95.700	2.869	249.1	95.600	0.249	2876.6	95.700	2.868	248.8	95.746
100%	Vmin	3.8158	248.7	95.100	3.813	248.5	95.300	3.818	248.5	95.400	0.249	3819.8	95.400	3.823	248.6	95.500
10%	Vnom	0.3626	309.0	90.500	0.360	308.9	90.400	0.359	309.7	90.200	0.363	309.9	90.100	0.363	309.9	90.320
20%	Vnom	0.7532	309.9	94.000	0.753	309.3	94.100	0.752	309.6	93.700	0.754	309.8	93.900	0.753	309.8	93.680
30%	Vnom	1.1437	309.7	95.100	1.139	309.5	95.300	1.137	309.6	95.000	1.147	309.7	95.200	1.147	309.7	95.100
50%	Vnom	1.9293	309.5	96.300	1.925	309.6	96.000	1.964	320.0	96.200	1.928	309.5	96.100	1.926	309.5	96.010
75%	Vnom	2.8748	309.3	96.100	2.884	309.7	96.000	2.894	313.3	96.000	2.880	309.3	96.100	2.875	309.3	95.940
100%	Vnom	3.8397	309.0	95.700	3.856	309.8	96.000	3.863	315.0	95.900	3.847	309.0	95.800	3.848	309.0	95.940
10%	Vmax	0.3542	359.9	90.800	0.361	359.8	90.900	0.360	359.1	88.200	0.358	359.9	89.200	0.364	359.9	90.740
20%	Vmax	0.7468	359.8	94.300	0.753	359.7	94.300	0.754	359.3	93.400	0.745	359.8	93.200	0.751	359.7	94.220
30%	Vmax	1.1480	359.7	95.600	1.141	359.6	95.500	1.141	359.5	95.000	1.155	359.7	95.600	1.148	359.6	95.810
50%	Vmax	1.9025	359.6	96.200	1.935	359.5	96.400	1.931	359.6	95.200	1.904	359.6	95.200	1.925	359.5	96.450
75%	Vmax	2.8937	359.3	96.000	2.884	359.3	96.100	2.883	359.7	96.300	2.864	359.4	95.400	2.883	359.3	96.220
100%	Vmax	3.8468	359.2	95.900	3.840	359.1	95.900	3.838	359.8	96.000	3.840	359.2	95.900	3.842	359.1	95.980

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															